		Exploring the E	Extreme
		2000 Mathem	
		Academic Sta	ndards
Indiana Mathematic	S		
Grade 1			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers		MA.1.1.5.1	Measure the length of objects by repeating a non-standard unit or a standard unit.
		Exploring the E	
		Academic Sta	
Indiana Mathematic		Adddinio Otal	indi do
Grade 4	Ī		
Activity/Lesson	State	Standards	
Changing the Center of Gravity Using Moment Arms	IN	MA.4.4.7.4	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, tools, and models to solve problems, justify arguments, and make conjectures.
			55.955.
		Exploring the E	
		2000 Mathem	
		Academic Sta	ndards
Indiana Mathematic	S		
Grade 5 Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	IN	MA.5.5.1.4	Interpret percents as a part of a hundred. Find decimal and percent equivalents for common fractions and explain why they represent the same value.
Center of Gravity, Pitch, Yaw	IN	MA.5.5.7.6	Know and apply appropriate methods for estimating results of rational-number computations.
		Exploring the E	
		2000 Mathem	
		Academic Sta	ndards
Indiana Mathematic	S		
Grade 6			
Activity/Lesson	State	Standards	
Vectoring	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
Center of Gravity,			Select and apply appropriate methods for estimating results of rational-number
Pitch, Yaw	IN	MA.6.6.7.7	computations.

			Write and use formulas with up to three
Fuel Efficiency	IN	MA.6.6.3.2	variables to solve problems.
T doi Emolorioy	11.4	1717 1.0.0.0.2	Organize and display single-variable data in
			appropriate graphs and stem-and-leaf plots,
			and explain which types of graphs are
Fuel Efficiency	IN	MA.6.6.6.1	appropriate for various data sets.
I del Efficiency	IIN	IVIA.0.0.0.1	Select and apply appropriate methods for
			estimating results of rational-number
Fuel Efficiency	IN	MA.6.6.7.7	computations.
Fuel Efficiency	IIN	IVIA.0.0.1.1	Use graphing to estimate solutions and
			check the estimates with analytic
Fuel Efficience:	IN	MA.6.6.7.8	· ·
Fuel Efficiency	IIN	IVIA.0.0.7.0	approaches.
		Exploring the E	_
		2000 Mathen	
		Academic Sta	ndards
Indiana Mathemati	cs		
Grade 7			
Activity/Lesson	State	Standards	
			Write and solve two-step linear equations
			and inequalities in one variable and check
Vectoring	IN	MA.7.7.3.2	the answers.
			Select and apply appropriate methods for
Center of Gravity,			estimating results of rational-number
Pitch, Yaw	IN	MA.7.7.7.8	computations.
			Use estimation to decide whether answers
			are reasonable in problems involving
Fuel Efficiency	IN	MA.7.7.2.4	fractions and decimals.
			Use variables and appropriate operations to
			write an expression, a formula, an equation,
			or an inequality that represents a verbal
Fuel Efficiency	IN	MA.7.7.3.1	description.
			Solve an equation or formula with two
Fuel Efficiency	IN	MA.7.7.3.5	variables for a particular variable.
			Analyze, interpret, and display data in
			appropriate bar, line, and circle graphs and
			stem-and-leaf plots, and justify the choice of
Fuel Efficiency	IN	MA.7.7.6.1	display.
			Use graphing to estimate solutions and
			check the estimates with analytic
Fuel Efficiency	IN	MA.7.7.7.9	approaches.
		Franka da e	
		Exploring the E	
		2000 Mathen	
Indiana Mathemati	000	Academic Sta	nuarus
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Grade 8	Stata	Ctondordo	
Activity/Lesson	State	Standards	Select and apply appropriate methods for
Center of Gravity,			estimating results of rational-number
Pitch, Yaw	IN	MA.8.8.7.8	computations.
riicii, raw	IIN	IVIA.0.0.1.0	computations.

Fuel Efficiency	IN	MA.8.8.6.4	Analyze, interpret, and display single- and two-variable data in appropriate bar, line, and circle graphs; stem-and-leaf plots; and box-and-whisker plots and explain which types of display are appropriate for various data sets.
T doi Emoioriey			Select and apply appropriate methods for
			estimating results of rational-number
Fuel Efficiency	IN	MA.8.8.7.8	computations.
			Use graphing to estimate solutions and
			check the estimates with analytic
Fuel Efficiency	IN	MA.8.8.7.9	approaches.